INTERNATIONAL SEARCH REPORT

Inter al Application No PCT/US2004/038369

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B01D46/24 B01D45/04 B01D50/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 BOID Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Category ° 1-9,16X EP 0 923 975 A (ROBERT BOSCH GMBH; BAYERISCHE MOTOREN WERKE AKTIENGESELLSCHAFT) 23 June 1999 (1999-06-23) 10,11,17 the whole document US 6 572 667 B1 (GREIF VOLKER ET AL) 10,11,17 3 June 2003 (2003-06-03) the whole document 1-17 WO 02/02206 A (DONALDSON COMPANY, INC) 10 January 2002 (2002-01-10) figures 1-8 US 2 771 153 A (HENNIG RALPH R) 1,3,4, 10,16,17 20 November 1956 (1956-11-20) the whole document Patent family members are listed in annex. X Further documents are listed in the continuation of box C. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention *E° earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled other means in the art. "P" document published prior to the international filing date but *&" document member of the same patent family later than the priority date claimed Date of mailing of the International search report Date of the actual completion of the international search 21/03/2005 10 March 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, de Biasio, A Fax: (+31-70) 340-3016

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